PATENT Docket No. 5634.148

GROWPTHEOUNITED STATES PATENT AND TRADEMARK OFFICE

Inventors:

John C. Harvey and James W.

Cuddihy

Serial No.:

08/479,374

Filing Date: June 7, 1995

For:

Signal Processing Apparatus and

Methods

Group Art Unit: 2602

Examiner:

Assistant Commissioner for Patents Washington D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a) and in conformance with the procedures of 37 C.F.R. §§ 1.97-98 and M.P.E.P. § 609, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449.

The above-referenced application claims priority under 35 U.S.C. § 120 of the following applications:

<u>Serial No.</u>	<u>Filing Date</u>	Patent No.
08/113,329	August 30, 1993	Pending
08/056,501	May 3, 1993	5,335,277
07/849,226	March 10, 1992	5,233,654
07/588,126	September 25, 1990	5,109,414
07/096,096	September 11, 1987	4,965,825

Applicants believe that all references cited on the attached Form PTO-1449 were submitted to the PTO in co-pending U.S. Patent Application Serial No. 08/448,143, filed 23 May 1995. Therefore, no copies of the listed references are provided herewith.

It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

CERTIFICATION AND/OR FEE

Since this IDS is being filed pursuant to 37 C.F.R. § 1.97(b) before the later of three months after the filing date of the above-referenced application or the date of receipt of the first Office Action on the merits, no certification or fee is required.

Respectfully submitted,

Thomas J. Scott, Jr. (Reg. No. 27,836)

Dated: April 4, 1996

HOWREY & SIMON 1299 Pennsylvania Avenue, N.W. Washington, D.C. 20004-2402 (202) 783-0800 (telephone) (202) 383-6610 (telecopier)

Information Disclosure Statement by Applicant	Attorney Docket No. Serial No. 5634.148 Serial No. 08/479,374		
	Applicant(s) John C. Harvey and James W. Cuddihy		03 FEF
Title: Signal Processing Apparatus and Method	Filing Date Group June 7, 1995 2602		-6 PM
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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	* Filing Date
	2,875,270	2/24/59	Wendt et al.	178/5.1	
	3,440,427	4/22/69	Kammer	250/210	
	3,485,946	12/23/69	Jackson et al.	178/6	
	3,500,327	3/10/70	Belcher et al.	340/154	
	3,560,936	2/2/71	Busch	340/172.5	
	3,564,509	2/16/71	Perkins et al.	340/172.5	
	3,696,297	10/3/72	Otero	325/55	
	. 3,712,956	1/23/73	Lemelson	178/6.6A	
	3,836,888	9/17/74	Boenke et al.	340/172.5	
	3,848,082	11/12/74	Summers	178/5.6	
	3,889,054	6/10/75	Nagel et al.	178/6.8	
	3,936,868	2/3/76	Thorpe	358/22	
-	3,982,065	9/21/76	Barnaby et al.	178/5.8	<u>-</u>
	3,984,637	10/5/76	Caudill et al.	179/2	
	3,996,583	12/7/76	Hutt et al.	340/324	
	4,016,361	4/5/77	Pandey	358/83	
	4,026,555	5/31/77	Kirschner et al.	273/85	· ·

Examiner	Date Considered

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date
	4,032,972	6/28/77	Saylor	358/142	
	4,042,958	8/16/77	Saylor et al.	358/141	
	4,052,719	10/4/77	Hutt et al.	340/324	
*	4,055,848	10/25/77	Fearnside	358/8	
	4,064,490	12/20/77	Nagel	364/200	
	4,074,315	2/14/78	Kawamura et al.	358/142	
	4,096,524	6/20/78	Scott	358/85	
	4,099,258	7/4/78	Parsons	364/900	
/	4,120,003	10/10/78	Mitchell et al.	358/142	
	4,134,127	1/9/79	Campioni	358/16	
	4,135,213	1/16/79	Wintfeld et al.	358/142	
	4,139,860	2/13/79	Micic et al.	358/22	
	4,161,728	7/17/79	Insam	340/750	
	4,162,513	7/24/79	Beyers, Jr. et al.	358/191	
	4,178,613	12/11/79	Takahashi et al.	358/183	
	4,203,130	5/13/80	Doumit et al.	358/1	
	4,228,543	10/14/80	Jackson	455/181	
	4,231,031	10/28/80	Crowther et al.	340/695	

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	4,233,628	11/11/80	Ciciora	358/147	
_	4,243,984	1/6/81	Ackley et al.	340/703	
	4,245,252	1/13/81	Nagumo	358/213	
	4,249,211	2/3/81	Baba et al.	358/183	
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	4,270,145	5/26/81	Farina	358/188	
	4,278,973	7/14/81	Hughes et al.	340/721	
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	4,308,558	12/29/81	Hernandez et al.	358/142	
	4,315,282	2/9/82	Schumacher	358/107	
	4,337,485	6/29/82	Chambers	358/147	
	4,344,090	8/10/82	Belisomi et al.	358/183	
	4,361,848	11/30/82	Poignet et al.	358/1	
	4,374,395	2/15/83	Herrmann et al.	358/22	
	4,405,946	9/20/83	Knight	358/192.1	
	4,412,244	10/25/83	Shanley, II	358/22	
	4,413,281	11/1/83	Thonnart	358/147	
	4,420,769	12/13/83	Novak	358/139	

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	* Filing Date
	4,430,669	2/7/84	Cheung	358/122	
	4,449,249	5/15/84	Price	455/45	
	4,450,442	5/22/84	Tanaka	340/814	
	4,456,925	6/26/84	Skerlos et al.	358/85	
	4,477,830	10/16/84	Lindman et al.	358/1	
	4,495,654	1/22/85	Deiss	455/151	
	4,496,171	1/29/85	Cherry	283/61	
	4,496,976	1/29/85	Swanson et al.	358/147	
	4,498,098	2/5/85	Stell	358/22	
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	4,595,951	6/17/86	Filliman	358/147	
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	4,616,262	10/7/86	Toriumi et al.	358/183	
	4,620,227	10/28/86	Levin et al.	358/147	
	4,620,229	10/28/86	Amano et al.	358/194.1	
	4,626,909	12/2/86	Oniki et al.	358/114	
	4,639,890	1/27/87	Heilveil et al.	364/900	

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Information Disclosure Statement by Applicant	1	
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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date
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	4,691,351	9/1/87	Hayashi et al.	380/10	
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	4,720,819	1/19/88	Pinkham et al.	365/219	12/30/83
	4,745,549	5/17/88	Hashimoto	364/402	6/6/86
	4,747,081	5/24/88	Heilveil et al.	365/219	12/30/83
	4,768,144	8/30/88	Winter et al.	364/200	10/20/86
	4,768,228	8/30/88	Clupper et al.	380/20	9/11/87***
	4,829,569	5/9/89	Seth-Smith et al.	380/10	7/8/86
	4,885,775	12/5/89	Lucas	380/10	9/21/84
	5,163,024	11/10/92	Heilveil et al.	365/219	5/9/90***
	Re. 31,977	8/27/85	Ott	364/200	
	Re. 32,187	6/17/86	Barda et al.	340/706	

⁻ If pertinent

Examiner	Date Considered

^{*** -} Claims priority from patent application filed prior to Sept. 11, 1987

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Examiner Initial	Document Number	Publication Date	Country	Class / Subclass	Trans Yes	lation No
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	0 133 985	3/13/85	European Patent Office	H 04 N 7/087	abs.	
	1,066,931	4/26/67	Great Britain	G 07c		No

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Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.		
	Gecsei, Jan. <u>The Architecture of Videotex Systems</u> (Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1983), pp. 174-177, 233-238.		
	Sigel, Efrem et al. <u>The Future of Videotext: Worldwide Prospects for Home/Office Electronic Information Services</u> (White Plains, N.Y.: Knowledge Industry Publications, Inc., 1983), pp. 28, 119-126.		
	Raggett, Michael. "Broadcast Telesoftware," <u>Computer Graphics World</u> , Vol. 6, No. 9, September 1983, table of contents, pp. 49, 50, 52 and letters.		
	Tydeman, John et al. <u>Teletex and Videotex in the United States: Market Potential,</u> <u>Technology, Public Policy Issues</u> , Institute for the Future (New York: McGraw-Hill Publications, 1982), pp. 4, 89-99, 122-169.		
	"Telesoftware and Education Project: Summary of Report," A Joint BBC/ITV & Brighton Research Project, Summer 1982, 111 p. and appendix.		

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Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
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	Nishimoto, Naomichi et al. "VHS VCR with Index and Address Search Systems," Consumer Electronics, Vol. CE-33, No. 3 August 1987, pp. 220-225.
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	McIntyre, Colin, "Broadcast teletext - who says it isn't interactive?" pp. 1-12 in: Anon. <u>Videotex-key to the information revolultion</u> (Online Publications Ltd., 1982).
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Examiner		Date Considered
Examiner: Initial	if citation considered, whether or	not citation is in conformance with

M.P.E.P. 609; draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.

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	Marti, Bernard. "New Ancillary Services Using a Television Channel," <u>SMPTE Journal</u> , Vol. 86, November 1977, pp. 815, 817, 818.
	Biggs, A.J. et al. "Broadcast data in television," GEC Journal of Science and Technology, Vol. 41, No. 4, 1974, pp. 117-124.
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Supplemental Information Disclosure Statement by Applicant	Attorney Docket No. 5634.148	Serial No. 08/479,374
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Title: Signal Processing Apparatus and Methods		

U. S. Patent Documents

Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date
	2,510,046	5/30/50	Ellett, et al.	178/5.6	
	2,619,530	11/25/52	Roschke	178/5.1	
	2,892,882	6/30/59	Hughes	178/5.1	
	2,972,008	2/14/61	Ridenour, et al.	178/5.1	
	3,304,416	2/14/67	Wolf	235/92	
	3,336,437	8/15/67	Brouard, et al.	178/5.4	:
	3,478,164	11/11/69	Southworth	178/6.6	
	3,576,391	4/27/71	Houghton	178/5.6	
	3,683,111	8/8/72	Southworth	178/6	
	3,726,992	4/10/73	Eguchi, et al.	178/5.6	
:	3,728,480	4/17/73	Baer	178/6.8	
	3,743,767	7/3/73	Bitzer, et al.	178/5.6	
	3,875,329	4/1/75	Nagel	178/6.8	
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	4,148,066	4/3/79	Saylor	358/127	
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	4,199,656	4/22/80	Saylor	178/66.1	
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	4,303,940	12/1/81	Ciciora	358/142	
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	4,335,402	6/15/82	Holmes	358/147	
	4,347,618	8/31/82	Kavouras, et al.	375/37	
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	4,388,639	6/14/83	. Cox, et al.	358/27	
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	4,393,404	7/12/83	Cox, et al.	358/147	
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	4,449,145	5/15/84	Ciciora	358/147	
	4,458,268	7/3/84	Ciciora	358/120	
	4,520,392	5/28/85	Cox et al.	358/147	
	4,734,907	3/29/88	Turner	370/60	9/6/85

^{*-} If pertinent

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^{***-} Claims priority from parent application filed prior to Sep. 11, 1987.

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Foreign Patent Documents

Examiner Initial	Document Number	Publication Date	Country	Class / Subclass	Trans Yes	slation No
	WO 85/03604	8/15/85	PCT Application	H03K 3/84		Х
	0 132 007	1/23/85	European Patent Office	H04N 7/16		х
	2 033 699	5/21/80	Great Britain	H04L 1/10, 1/40		Х
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	Powell, C., "Prestel: The Opportunity For Advertising," <u>Viewdata & Videotext, 1980-81</u> <u>A Worldwide Report/Transcript of Viewdata '80 First World Conference On Viewdata, Videotex, and Teletext</u> , March 26-28, 1980, pp. 233-246.

Examiner		Date Considered
Evaminar	Initial if citation considered whether or not citation	is in conformance

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Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.
	Reuters, "TRANSMISSION PROTOCOL FOR REUTERS NEWS-VIEW," Aug. 1978, 2 pages.
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	Hutt, P., "ORACLE-A Fourth Dimension in Broadcasting," <u>IBM Technical Review</u> , September 1976/9 Digital Television Developments, pp. 3-9.
	Hutt, P., "A System of Data Transmission in the Field Blanking Period of the Television Signal," <u>IBA Technical Review</u> , June 1973, Digital Television, pp. 37-44.
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with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Supplemental Information Disclosure Statement by Applicant	Attorney Docket No. 5634.148	Serial No. 08/479,374
	Applicant(s) John C. Harvey and James W. Cuddihy	
Title: Signal Processing Apparatus and Methods	Filing Date June 7, 1995	Group 2602

Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.	
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ALL REFERENCES HAVE BEEN CONSIDERED

SEE PAPER # 15